

COMcheck Software Version 4.0.6.2
Envelope Compliance Certificate

Project Information

Energy Code: 80.1 (2007) Standard
Project Title: Burger King
Location: Andrews, South Carolina
Climate Zone: 3a
Project Type: New Construction
Vertical Glazing / Wall Area: 15%

Construction Site: 406 East Main
Andrews, SC 29510

Owner/Agent: Bruce Daniels
Carolina Franchise Holding
PO Box 4711
Greenwood, SC 29644
846-462-5481

Designer/Contractor: Arie Kohn
Arie Kohn Architects, PC
74 Woodstock Plaza
Roswell, GA 30075
770-642-3785
arie@akohmarch.com

Building Area	Floor Area
1-Dining, Cafeteria/Fast Food, Nonresidential	2360

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof Elevation: Wood Framed, 16" o.c., 2Bldg. Use 1 - Dining, Cafeteria/Fast Food	1101	19.0	2.0	0.056	0.059
Window 1: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID N/A, SHGC 0.25, PF 0.50, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	76	---	---	0.830	0.830
Window 1 copy 1: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID N/A, SHGC 0.25, PF 0.50, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	29	---	---	0.830	0.830
Window 1 copy 2: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID N/A, SHGC 0.25, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	51	---	---	0.830	0.830
Door 1: Glass (w/ 50% glazing)/Metal Frame, Entrance Door, Perf. Specs.: Product ID N/A, SHGC 0.25, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	21	---	---	0.900	0.900
Roof Elevation: Wood Framed, 16" o.c., 2Bldg. Use 1 - Dining, Cafeteria/Fast Food	643	19.0	2.0	0.058	0.059
Door 4: Insulated Metal, Sliding, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food	19	---	---	0.830	0.700
Left Elevation: Wood Framed, 16" o.c., 2Bldg. Use 1 - Dining, Cafeteria/Fast Food	1121	38.0	2.0	0.058	0.059
Window 9: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID N/A, SHGC 0.25, PF 0.50, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	98	---	---	0.830	0.830

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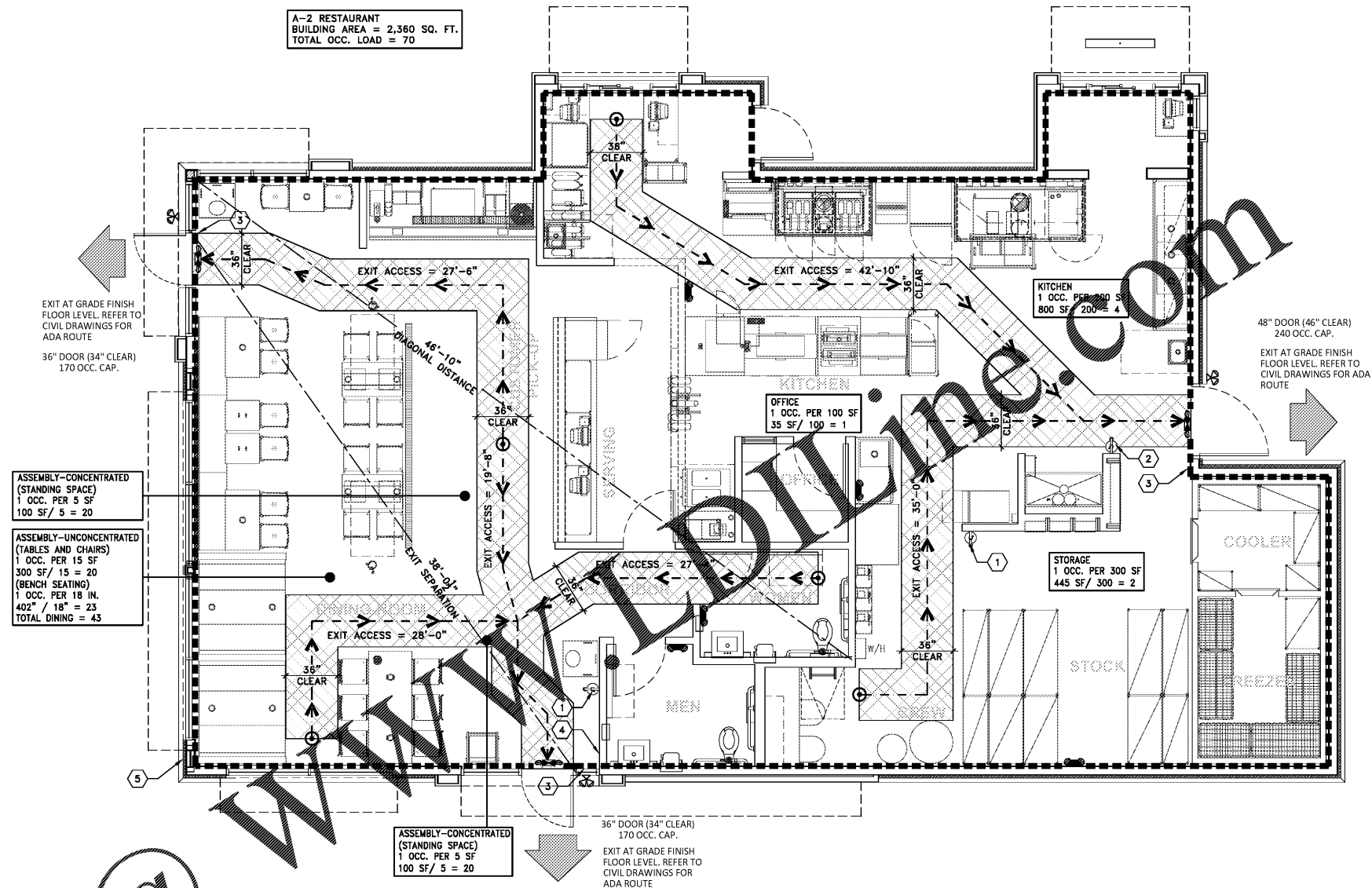
Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Window 6: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID N/A, SHGC 0.25, PF 0.50, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	36	---	---	0.830	0.830
Window 7: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID N/A, SHGC 0.25, PF 0.50, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	32	---	---	0.830	0.830
Roof Elevation: Wood Framed, 16" o.c., 2Bldg. Use 1 - Dining, Cafeteria/Fast Food	643	19.0	2.0	0.058	0.059
Window 8: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID N/A, SHGC 0.25, PF 0.50, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	152	---	---	0.830	0.830
Window 9: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID N/A, SHGC 0.25, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	57	---	---	0.830	0.830
Window 9 copy 1: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID N/A, SHGC 0.25, PF 0.50, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	27	---	---	0.830	0.830
Window 9 copy 2: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID N/A, SHGC 0.25, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	91	---	---	0.830	0.830
Door 5: Glass (w/ 50% glazing)/Metal Frame, Entrance Door, Perf. Specs.: Product ID N/A, SHGC 0.25, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food (B)	21	---	---	0.900	0.900
Floor 1: Insulated Concrete Slab, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food	2360	---	---	0.730	0.730
Floor 1: Insulated Concrete Slab, 2Bldg. Use 1 - Dining, Cafeteria/Fast Food	2360	---	---	0.037	0.046

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document...
Date: 8-28-19

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A-2 RESTAURANT
BUILDING AREA = 2,360 SQ. FT.
TOTAL OCC. LOAD = 70



ASSEMBLY-CONCENTRATED (STANDING SPACE)
1 OCC. PER 5 SF
100 SF / 5 = 20

ASSEMBLY-UNCONCENTRATED (TABLES AND CHAIRS)
1 OCC. PER 15 SF
300 SF / 15 = 20
402" / 18" = 23
TOTAL DINING = 43

1 LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"

CODED KEYED NOTES

- SURFACE MOUNTED TYPE ABC FIRE EXTINGUISHER, MOUNT @ 44" A.F.F., COORDINATE FINAL LOCATIONS AND QUANTITY WITH FIRE MARSHAL.
- TYPE K FIRE EXTINGUISHER, COORDINATE FINAL LOCATIONS AND QUANTITY WITH FIRE MARSHAL. LOCATE WITHIN 30'-0" OF HOOD.
- PROVIDE TACTILE EXIT SIGN.
- POST SIGNAGE LISTING THE ASSEMBLY OCCUPANT LOAD IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT DOOR FROM THE SPACE.
- POST THE BUILDING ADDRESS WITH A MINIMUM OF 4" NUMBERS ON A CONTRASTING BACKGROUND THAT IS VISIBLE FROM THE STREET. FIELD VERIFY REQUIREMENTS WITH LOCAL FIRE DEPARTMENT PRIOR TO START OF CONSTRUCTION.

LIFE SAFETY PLAN LEGEND

SYMBOL	TYPE
—	EXIT ACCESS TRAVEL DISTANCE
⊙	OCCUPANT PER EXIT
⊙	MOST REMOTE POINT
⊙	EXIT SIGNAGE / EMERGENCY LIGHTING
⊙	FIRE EXTINGUISHER

- GENERAL NOTES
- MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE TO AN EXIT IS 75'-0" MEASURED AT THE MOST REMOTE POINT ALONG THE NATURAL AND UNOBSTRUCTED PATH OF HORIZONTAL AND VERTICAL TRAVEL TO THE EXIT. THE COMMON PATH OF TRAVEL DISTANCE MUST BE LESS THAN 20 FEET WHERE THE PATH OF TRAVEL SERVES 50 OR MORE OCCUPANTS PER NFPA 101.
 - DISTANCE BETWEEN TWO POINTS OF EGRESS (MEASURED IN A STRAIGHT LINE BETWEEN THE TWO) SHALL NOT BE LESS THAN 1/2 DIAGONAL DISTANCE OF THE SPACE BEING SERVED BY EGRESS PATH.
 - MINIMUM DISTANCE BETWEEN SEATS IS 12 INCHES FOR A DISTANCE OF 12'-0" WITH AN ADDITIONAL 1/2" WIDTH FOR EACH 1'-0" OR FRACTION THEREOF BEYOND THE ORIGINAL 12'-0".
 - EGRESS ALONG SEATING IS MEASURED 19 INCHES FROM EDGE OF TABLE WHERE MOVEABLE CHAIRS ARE USED, OR FROM THE EDGE OF A FIXED SEAT.
 - PROVIDE FIRE EXTINGUISHERS AS REQUIRED PER APPLICABLE CODES AND COORDINATE EXACT QUANTITY AND LOCATION WITH FIRE MARSHAL.
 - PER IFC, THE MINIMUM FIRE EXTINGUISHER REQUIREMENT IS A 2A10BC EXTINGUISHER WITHIN 75'-0" OF TRAVEL DISTANCE OF ALL AREAS AND A MINIMUM RATED CLASS "K" FIRE EXTINGUISHER WITHIN 30'-0" OF COMMERCIAL COOKING EQUIPMENT.
 - PROVIDE AND INSTALL OCCUPANCY SIGN IN A CONSPICUOUS LOCATION IN ACCORDANCE WITH STATE & LOCAL CODES.
 - ALL LIGHT SWITCHES, THERMOSTATS, SECURITY ALARMS, ELECTRICAL OUTLETS, ETC. MUST BE MOUNTED TO MEET ALL GOVERNING ACCESSIBILITY REQUIREMENTS FOR FLOOR & HEIGHT CLEARANCES AND ONE HAND GRASPING OPERATION.
 - ALL MEANS OF EGRESS DOOR OPENING HARDWARE SHALL BE OPERATED BY A SINGLE HAND WITHOUT MEANS OF TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE. ALL DOORS EQUIPPED WITH PANIC HARDWARE MUST MAINTAIN A 32" CLEAR WIDTH. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED: 5.0 L.B.F.
 - NFPA INSPECTION TAGS SHALL BE ATTACHED TO ALL FIRE EXTINGUISHERS.

Order Plans @

B1914

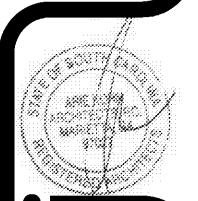
DATE	RELEASE
08.26.19	FOR CONSTRUCTION

CHECKED BY: AK
DRAWN BY: CY

NOTE: THESE DRAWINGS ARE THE PROPERTY OF ARIE KOHN ARCHITECTS, P.C. AND SHALL NOT BE USED, REPRODUCED, AND/OR MODIFIED WITHOUT WRITTEN CONSENT FROM ARIE KOHN ARCHITECTS, P.C.

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PROJECT: B1914
DATE: 07/27/2019

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ANDREWS, SC 29510

BURGER KING RESTAURANT
#08-0008-021-00-00

ENERGY COMPLIANCE & LIFE SAFETY PLAN